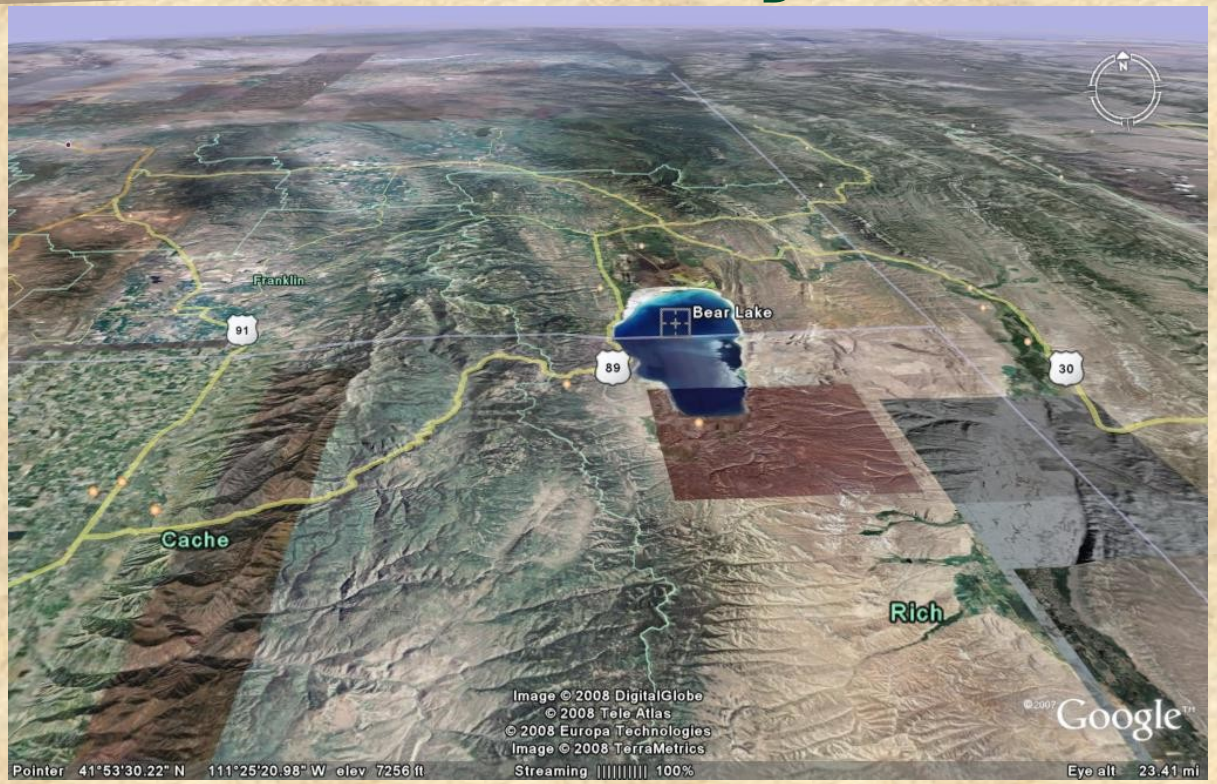
Bear River Watershed Case Study



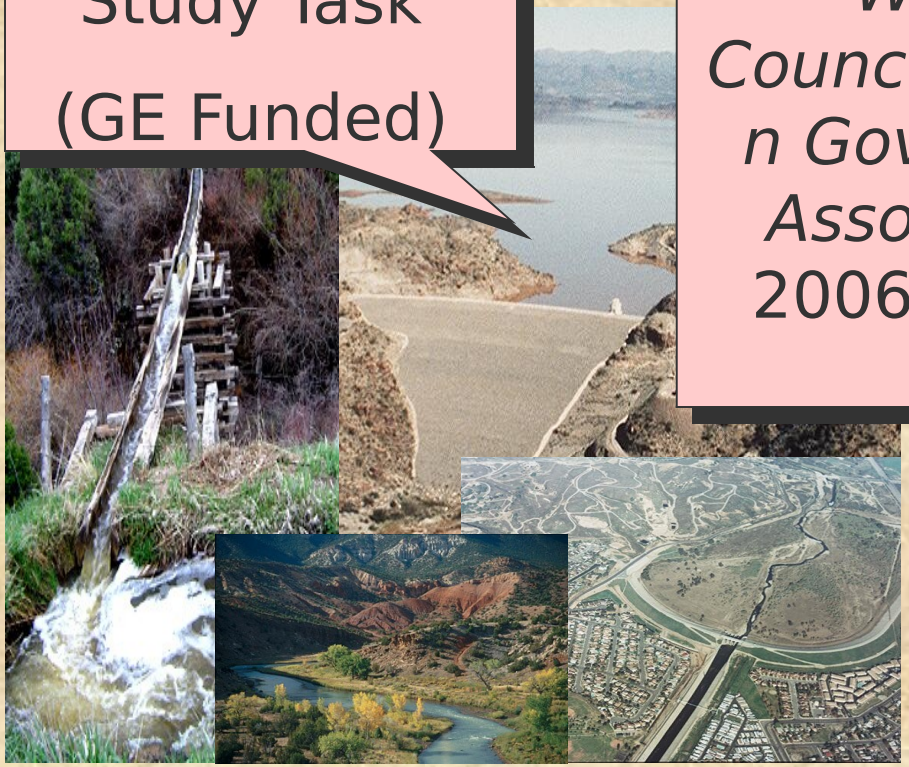
Collaboration for data management in multi-state watershed studies

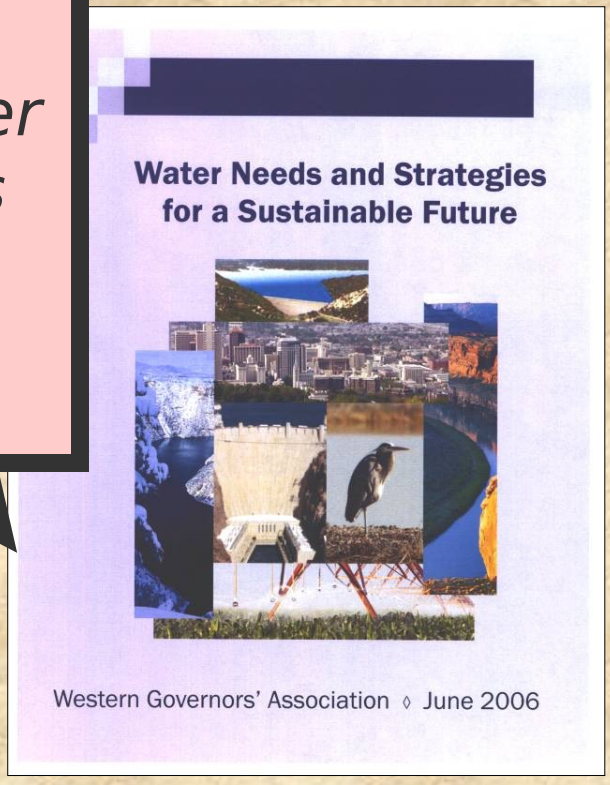
Bear River Watershed Case Study

Western States Watershed Study Task

(GE Funded)

To support *Western States Water Council/Western Governor's Association* 2006 Report





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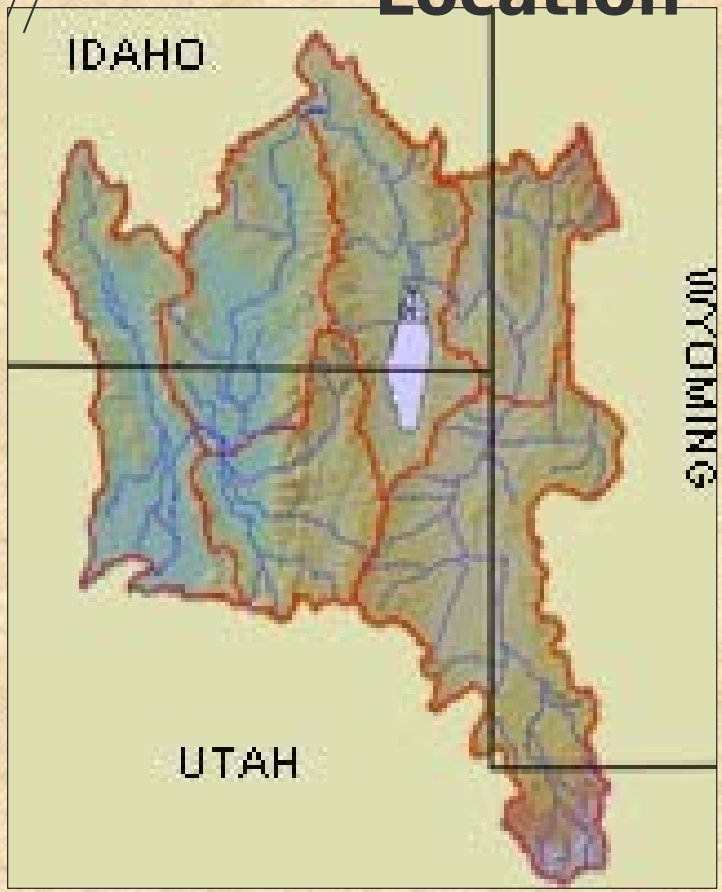
Watershed Location



Major Players

- Bear River Commission
- State & Agency advisors to the Commission
- Stakeholders
- Federal Government Representatives
- Utah State University

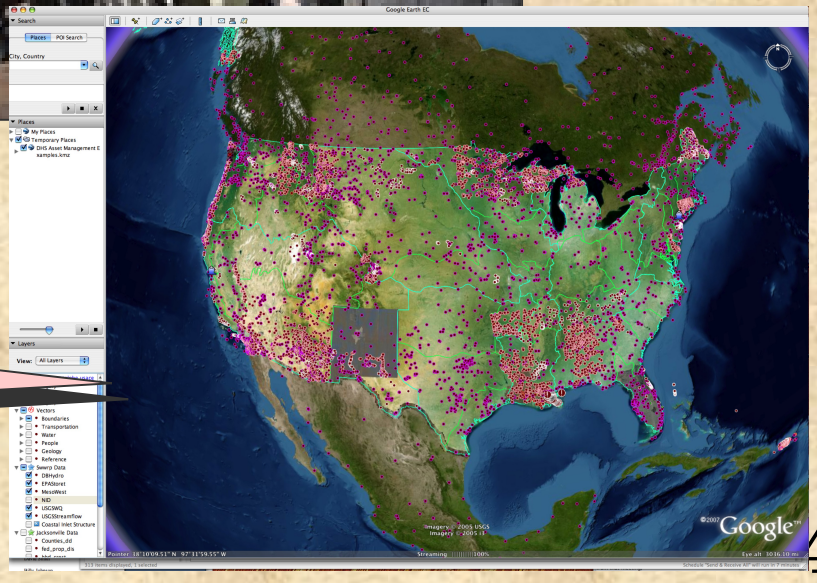
Bear River Watershed Case Study

Presentation Focus

Collaboration Dynamics & Lessons Learned

GIS Toolbar Intro & Demo-

SVP Discussed in other conference venue



Bear River Watershed Case Study

Watershed Needs

- **F**uture Water Storage/Allocation
- **I**mprove data management- and sharing
- **I**mprove federal/state/local collaboration in water resource planning & [illegible]agement

Study Focus

- **E**nhance existing tools in the Watershed (SVP, SWWRP ArcGIs Toolbar, Corps Globe)
- **D**iscover how tools can improve interagency/interstate collaboration in water resource planning & management
- **I**d lessons learned/ recommendations to improve Collaboration in other

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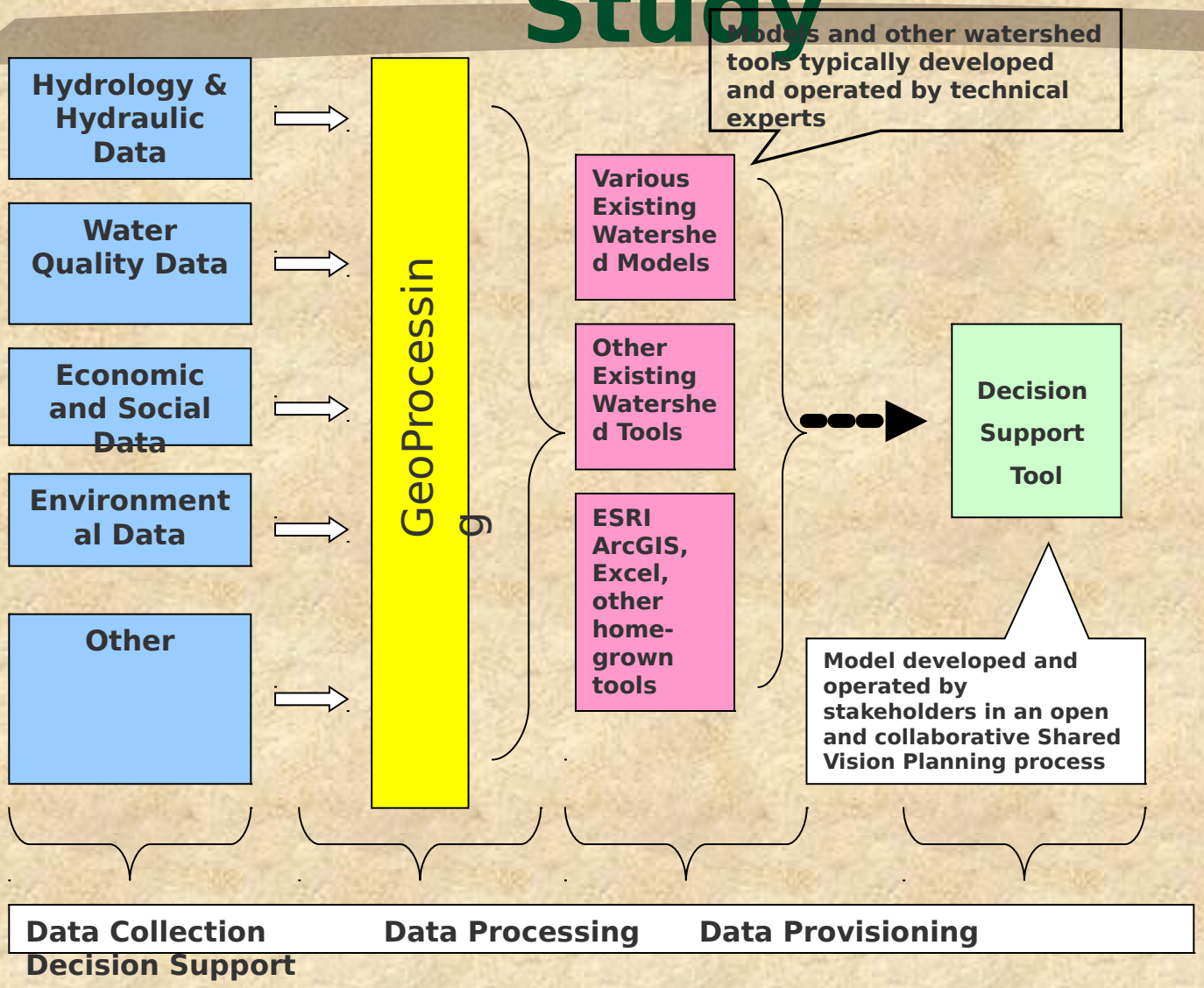
Hydrology & Hydraulic Data
Water Quality Data
Economic and Social Data
Environmental Data
Other
GeoProcessing
Models and other watershed tools typically developed and operated by technical experts
Various Existing Watershed Models
Other Existing Watershed Tools
ESRI ArcGIS, Excel, other home-grown tools
Decision Support Tool
Model developed and operated by stakeholders in an open and collaborative Shared Vision Planning process
Data Collection
Data Processing
Data Provisioning
Decision Support

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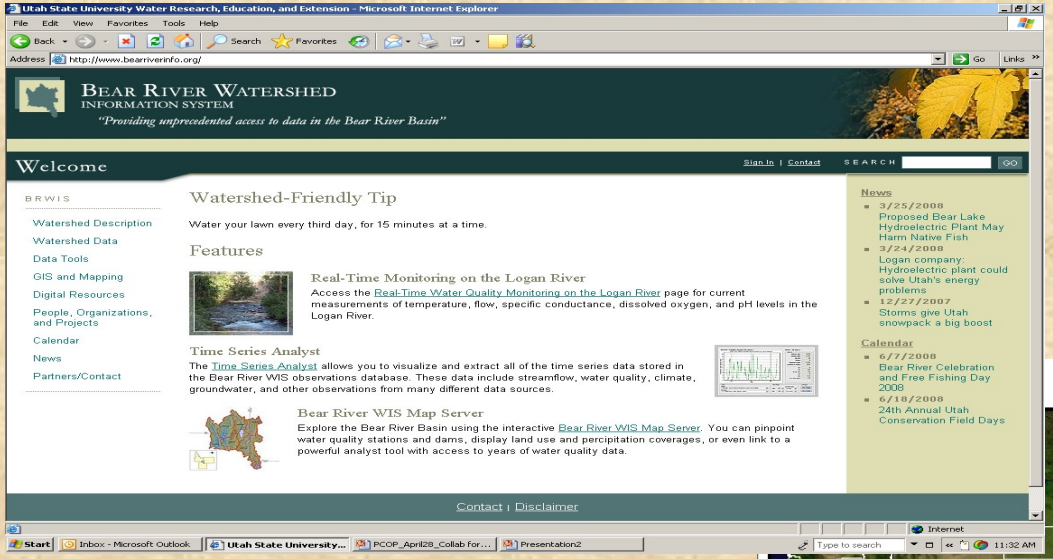
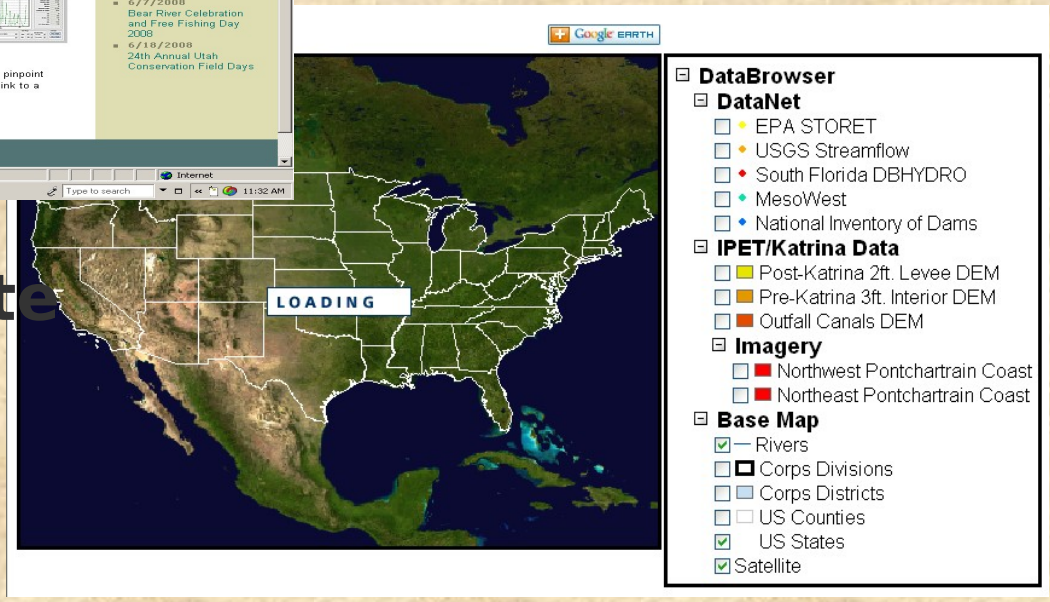

Utah State University Water Research, Education, and Extension - Microsoft Internet Explorer
http://www.bearriverinfo.org/
BEAR RIVER WATERSHED
INFORMATION SYSTEM
"Providing unprecedented access to data in the Bear River Basin"
Welcome
Sign In | Contact
SEARCH
GO
BRWIS
Watershed Description
Watershed Data
Data Tools
GIS and Mapping
Digital Resources
People, Organizations, and Projects
Calendar
News
Partners/Contact
Watershed-Friendly Tip
Water your lawn every third day, for 15 minutes at a time.
Features
Real-Time Monitoring on the Logan River
Access the Real-Time Water Quality Monitoring on the Logan River page for current measurements of temperature, flow, specific conductance, dissolved oxygen, and pH levels in the Logan River.
Time Series Analyst
The Time Series Analyst allows you to visualize and extract all of the time series data stored in the Bear River WIS observations database. These data include streamflow, water quality, climate, groundwater, and other observations from many different data sources.
Bear River WIS Map Server
Explore the Bear River Basin using the interactive Bear River WIS Map Server. You can pinpoint water quality stations and dams, display land use and percipitation coverages, or even link to a powerful analyst tool with access to years of water quality data.
News
3/25/2008
Proposed Bear Lake Hydroelectric Plant May Harm Native Fish
3/24/2008
Logan company: Hydroelectric plant could solve Utah's energy problems
12/27/2007
Storms give Utah snowpack a big boost
Calendar
6/7/2008
Bear River Celebration and Free Fishing Day 2008
6/18/2008
24th Annual Utah Conservation Field Days
Contact | Disclaimer

Bear River Website



SWWRP GIS Toolbar

Bear River Watershed Case Study

- The Bear River Basin Commission felt that existing tools were adequately meeting their needs.
- Researchers at Utah State University, associated with the Consortium of Universities for the Advancement of Hydrologic Science, Inc. (CUAHSI), were interested in continued collaboration with the SWWRP GIS Toolbar
- Utah State University adopted some of the features of the GIS Toolbar and provided a data plotting routine for CE incorporation into the GIS Toolbar
- Continued collaboration with CUAHSI is planned

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- **Questions:**

1. **Why did the partnership with the Commission not work very well?**

2. **What do results tell us about the potential utility of GIS data management tools in augmenting interagency/interstate collaboration and improving existing watershed management tools for water resources planning & management?**

3. **Lessons learned – How can collaboration improve?**

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- **Question 1- Points of disconnect**
  - **Communication problems (needed more discussion)**
  - **Water resource management issues have been and want to continue to be locally driven with limited federal involvement**
  - **All is well- don't rock the boat**

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- **Question 2 - Know your customer**

Utilization of GIS and data management tools is ongoing at local, state, and regional levels but at various levels of complexity.

It is important to spend time understanding local, state, and regional capabilities when offering assistance from Federal sources.

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Question 3: Conclusions/Lessons Learned:

- Collaboration between different governments can be difficult! Each have tools/methods in place . Defining roles and identifying ways to help one another can be very challenging!
- Successful collaboration requires willing partners with perceived mutual benefit, meets/extends capacity of limited resources
- Sometimes Federal Involvement is simply not wanted
- Partnerships require relationship building and trust
- The communication structure of partner organization may not meet needs for information exchanges.
- “Corps Speak” can limit desires of others to work with Corps
- Live demos of new tools are essential – avoid too much theory
- Provide context for new tools- relate them to old tools
- Stakeholders may not distinguish between different roles of each federal agency- the feds are the feds
- Partnerships with the Corps require planning and scheduling projects in advance- uncertainty/timing of federal dollars can annoy partners
- Bottom line for state and local organizations in seeking partnerships is often leveraging funds –not expertise.

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Recommendations

How to make the GIS toolbar, Shared Vision Planning and other tools more comprehensive to stakeholders?

How to improve federal support of locally led watershed initiatives?

How can corps planners engage more effectively in future watershed initiatives?

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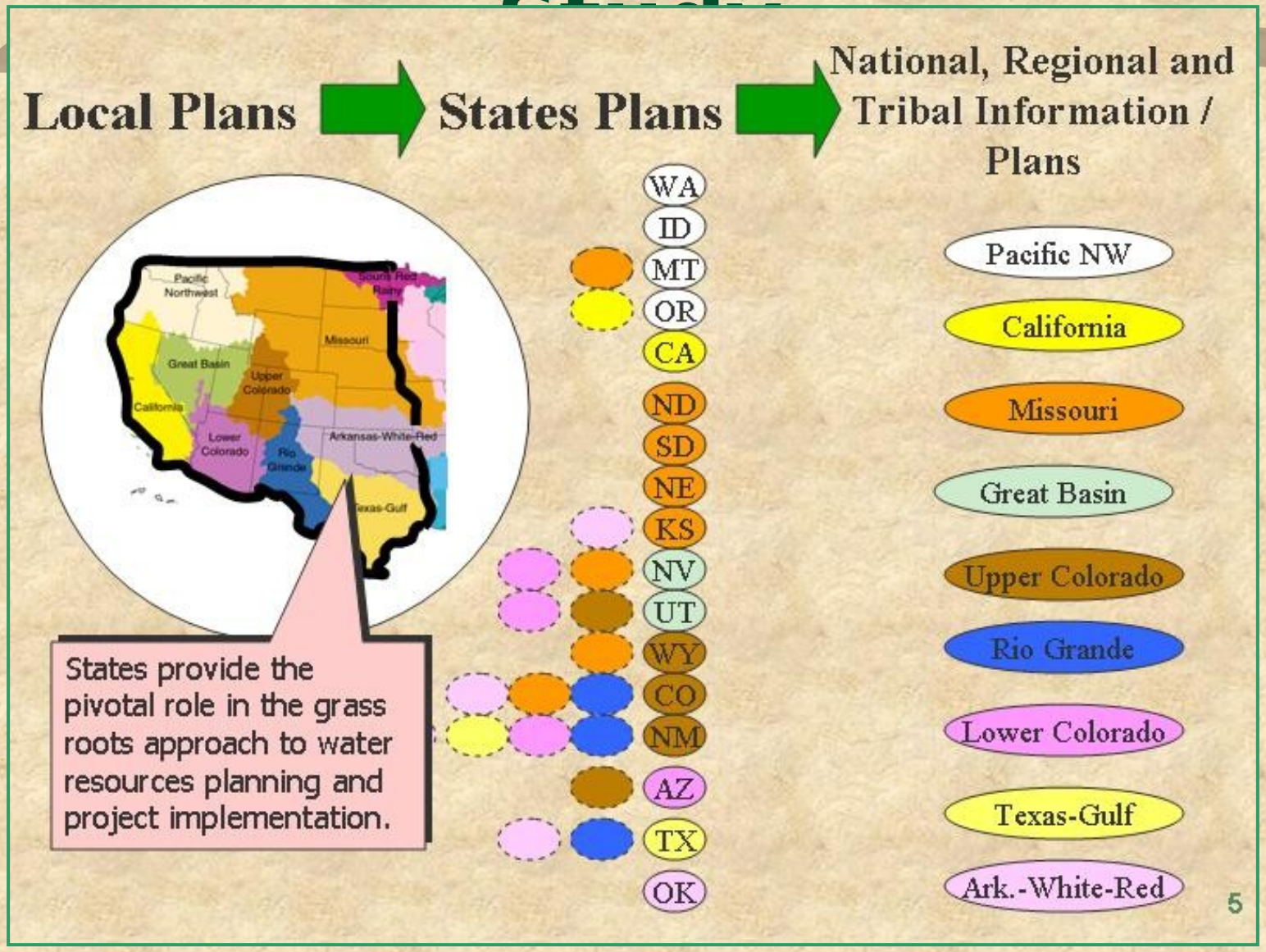

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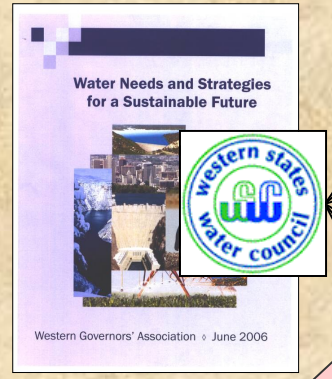
Federal Resources and Collaboration



Leveraged Resources

Basic Water Data Collection Tasks

Drought, Climate Change, Natural Hazards Tasks

Watershed Tools & Planning T

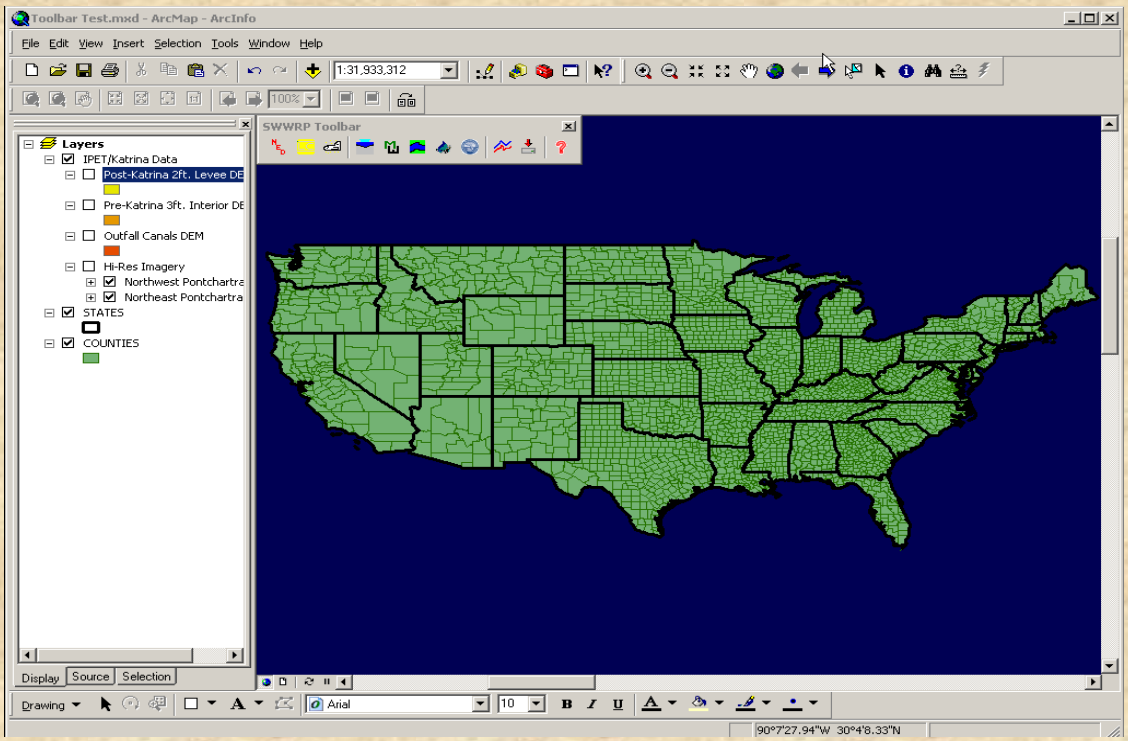
Infrastructure Needs Tasks

Western States Federal Agency Support Team

Situational Project Delivery Teams

Bear River Watershed Case Study

- Demonstration of the SWWRP GIS Toolbar



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Thank You……
Questions?

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